

**PATENTS**

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

<b>Applicants:</b>	Timothy J. Miller, et al.	<b>Examiner:</b>	TO BE ASSIGNED
<b>Serial No.:</b>	TO BE ASSIGNED	<b>Art Unit:</b>	TO BE ASSIGNED
<b>Filed:</b>	Herewith	<b>Docket:</b>	15463ZYXWV (PC9003E)
<b>For:</b>	RECOMBINANT FELINE CORONAVIRUS S PROTEINS	<b>Dated:</b>	August 22, 2003

Commissioner for Patents  
United States Patent and Trademark Office  
Alexandria, VA 22313-1450

**INFORMATION DISCLOSURE STATEMENT**

Sir:

In accordance with the provisions of 37 C.F.R. §§1.97 and 1.98, it is respectfully requested that the following disclosures, which are listed on the attached form PTO-1449 be made of record in the above-identified case.

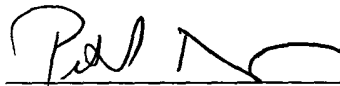
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Dated: August 22, 2003

  
Peter I. Bernstein

Pursuant to 37 C.F.R. §1.98(d), copies of the above-listed publications are not provided, as the references were previously submitted to the Examiner in connection with the parent case, Serial Number: 09/854,799 filed on May 14, 2001. Jacobs et al., Virus Research, 8:362-371, 1997 listed on page 3 of Notice of References Cited was cited by the Examiner in the parent case, Serial Number: 09/854,799, therefore, a copy of this reference is not provided.

Consideration of this Information Disclosure Statement is respectfully requested, since the art provided may be material to the examination of the present application as defined under 37 C.F.R. §1.56.

Inasmuch as this Information Disclosure Statement is being mailed prior to the issuance of a first Official Action, no fee or certification is required.

Respectfully submitted,

A handwritten signature in black ink, appearing to read "Peter I. Bernstein", with a stylized flourish at the end.

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U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER							DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
	AA	4	1	9	5	1	3	0	3/25/80	Hoshino, et al.	435	235	
	AB	4	2	9	3	6	5	3	10/6/81	Horzinek, et al.	435	237	
	AC	4	5	7	1	3	8	6	2/18/86	Fishman, et al.	435	235	
	AD	4	9	0	4	4	6	8	2/27/90	Gill	424	202.1	
	AE	4	3	0	3	6	4	4	12/1/81	Davis	424	89	
	AF	4	3	5	8	5	3	5	11/9/82	Falkow	435	5	
	AG	4	8	5	1	3	4	1	7/25/89	Hopp	435	69.7	

FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER							DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
													YES	NO
	AH	9	0	1	3	5	7	3	11/15/90	PCT				
	AI	8	7	0	4	6	2	4	8/13/87	PCT				
	AJ	0	2	7	8	5	4	1	8/17/88	EP				
	AK	0	4	1	1	6	8	4	2/6/91	EP				
	AL	0	0	1	1	8	6	4	6/11/80	EP				
	AM	0	0	1	1	8	6	5	6/11/80	EP				
	AN	0	3	7	6	7	4	4	7/4/90	EP				
	AO	0	3	1	0	3	6	2	4/5/89	EP				
	AP	0	1	3	8	2	4	2	4/24/85	EP				
	AQ	0	2	6	4	9	7	9	4/27/88	EP				

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

	AR	Lutz, H., et al., 1986, Feline infectious peritonitis (FIP) - the present state of knowledge, J. Small Anim. Pract. 27: 108-116.
	AS	Pedersen, N.C., 1987, Virologic and immunologic aspects of feline infectious peritonitis virus infection, Adv. Exp. Med. Biol. 218:529-550.
	AT	Woods, R.D., and Pedersen, N.C., 1979, Cross-protection studies between feline infectious peritonitis and porcine transmissible gastroenteritis viruses, Vet. Microbiol. 4: 11-16.
	AU	Barlough, J.E., et al., 1985, Experimental inoculation of cats with human coronavirus 229E and subsequent challenge with feline infectious peritonitis virus, Can. J. Comp. Med. 49: 303-307.
	AV	Barlough, J.E., et al., 1984, Experimental inoculation of cats with canine coronavirus and subsequent challenge with feline infectious peritonitis virus, Lab. Anim. Sci. 34: 592-597.
	AW	Stoddart, C.A., et al., 1988, Attempted immunisation of cats against feline infectious peritonitis using canine coronavirus, Res. Vet. Sci. 45: 383-388.
	AX	Posthumus, W.P.A., et al., 1990, Analysis and simulation of a neutralizing epitope of transmissible gastroenteritis virus, J. Virol. 64: 3304-3309.

# INFORMATION DISCLOSURE CITATION

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ATTY. DOCKET NO.

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SERIAL NO.

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APPLICANT  
Miller et al.

FIING DATE  
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N/A

AY	Pedersen, N.C., 1983, Attempted immunization of cats against feline infectious peritonitis using avirulent live virus or sublethal amounts of virulent virus, Am J. Vet. Res. 44: 229-234.
AZ	DeGroot, R.J., et al., 1987, cDNA cloning and sequence analysis of the gene encoding the peplomer protein of feline infectious peritonitis virus, J. Gen. Virol. 68: 2639-2646.
BA	Gerber, J.D., et al., 1990, Protection against feline Infectious peritonitis by intranasal inoculation of a temperature-sensitive FIPV vaccine, Vaccine 8: 536-542.
BB	August, J.R., 1984, Feline infectious peritonitis, Sm. Anim. Pract. 14: 971-984.
BC	Fiscus, S.A., et al., 1987, Antigenic comparison of feline coronavirus isolates: evidence for markedly different peplomer glycoproteins, J. Virol. 61: 2607-2613.
BD	DeGroot, R.J., et al., 1988, Sequence analysis of the 3' end of the feline coronavirus FIPV 79-1146 genome: comparison with the genome of porcine coronavirus TGEV reveals large insertions, J. Virol. 167: 370-276.
BE	Hohdatsu, T., et al., 1991, Antigenic analysis of feline coronaviruses with monoclonal antibodies (Mabs): preparation of Mabs which discriminate between FIPV strain 79-1146 and FECV strain 79-1683, Vet. Microbiol. 28: 13-24.
BF	Fiscus, S.A., et al., 1987, Epitope-specific antibody responses to virulent and avirulent feline infectious peritonitis virus isolates, J. Clin. Microbiol. 25: 1529-1534.
BG	Bae, I., et al., 1991, Differentiation of transmissible gastroenteritis virus from porcine respiratory coronavirus and other antigenically related coronaviruses by using cDNA probes specific for the 5' region of the S glycoprotein gene, J. Clin. Microbiol. 29: 215-218.
BH	Jacobs, L., et al., 1987, The nucleotide sequence of the peplomer gene of porcine transmissible gastroenteritis virus (TGEV): comparison with the sequence of the peplomer protein of feline infectious peritonitis virus (FIPV), Virus Res., 8: 363-371.
BI	Pedersen, N.C. et al., 1980, Immunologic phenomena in the effusive form of feline infectious peritonitis. Am. J. Vet. Res. 41:868-876.
BJ	Young, R. A. And Davis, R. W., 1983, Efficient isolation of genes using antibody probes. Proc. Natl. Acad. Sci. USA 80:1194-1198.
BK	Toma, B. et al. 1979, Echec de l'immunisation contre la peritonite infectieuse feline par injection de virus de la gastro-enterite transmissible du porc. Rec. Med. Vet. 155:799-803.
BL	Uhlen, M. and Moks, T., 1990, Gene fusions for purpose of expression: an introduction. Meth. Enzymol. 185:129-143.
BM	Lerner, R. A. Et al., 1983. The development of synthetic vaccines. In: The Biology of Immunologic Disease, edited by F. J. Dixon and D. W. Fisher, Sinauer Associates, Sunderland, Mass. Chapter 31, pp. 331-338.
BN	Vennema, H. Et al., 1990, Early death after feline infectious peritonitis virus challenge due to recombinant vaccinia virus immunization. J. Virology 64:1407-1409
BO	DeGroot, R. J. et al., 1989, Stably expressed FIPV peplomer protein induces cell fusion and elicits neutralizing antibodies in mice. Virology 171:493-502.
BP	Christianson, K. K. et al., 1989, Characterization of a temperature sensitive feline infectious peritonitis coronavirus. Arch. Virol. 109:185-196.
BQ	Greene, J. R. and Guarente, L., 1987, Subcloning. Meth. Enzymol. 152:512-522.
BR	Takahashi, H. et al., 1990, Induction of CD8 + cytotoxic T-cell by immunization with purified HIV-1 envelope protein in ISCOMs. Nature 344:873-875.

DATE CONSIDERED

INER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance  
not considered. Include copy of this form with next communication to applicant.

INFORMATION DISCLOSURE

**Notice of References Cited**  
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Application/Control No. <b>TO BE ASSIGNED</b>	Applicant(s) <b>MILLER ET AL.</b>	
Examiner <b>TO BE ASSIGNED</b>	Art Unit <b>N7A</b>	Page <b>3/3</b>

**U.S. PATENT DOCUMENTS**

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**NON-PATENT DOCUMENTS**

*		Include as applicable: Author, Title Date, Publisher, Edition or Volume, Pertinent Pages)
	U	Jacobs et al. Virus Research 1987 Vol 8, pages 363- 371
	V	
	W	
	X	

\*A copy of this reference is not being furnished with this Office action. (See MPEP § 707.05(a).)  
 Dates in MM-YYYY format are publication dates. Classifications may be US or foreign.